

7. (Amended) The polymer electrolyte fuel cell according to Claim 1, wherein the porous sheet has a thickness of from 0.1 to 1 mm and a porosity of from 30 to 90%.

Please add new Claims 11-25.

11. (New) The polymer electrolyte fuel cell according to Claim 2, wherein the fluorine-containing polymer is contained in the current collectors in an amount of from 0.001 to 60% based on the total mass of the current collectors.

12. (New) The polymer electrolyte fuel cell according to Claim 2, wherein the porous sheet is made of a carbonaceous material.

13. (New) The polymer electrolyte fuel cell according to Claim 2, wherein the porous sheet has a thickness of from 0.1 to 1 mm and a porosity of from 30 to 90%.

14. (New) The polymer electrolyte fuel cell according to Claim 3, wherein the fluorine-containing polymer is contained in the current collectors in an amount of from 0.001 to 60% based on the total mass of the current collectors.

15. (New) The polymer electrolyte fuel cell according to Claim 3, wherein the porous sheet is made of a carbonaceous material.

16. (New) The polymer electrolyte fuel cell according to Claim 3, wherein the porous sheet has a thickness of from 0.1 to 1 mm and a porosity of from 30 to 90%.

17. (New) The polymer electrolyte fuel cell according to Claim 4, wherein the fluorine-containing polymer is contained in the current collectors in an amount of from 0.001 to 60% based on the total mass of the current collectors.

18. (New) The polymer electrolyte fuel cell according to Claim 4, wherein the porous sheet is made of a carbonaceous material.

19. (New) The polymer electrolyte fuel cell according to Claim 4, wherein the porous sheet has a thickness of from 0.1 to 1 mm and a porosity of from 30 to 90%.

20. (New) A method for producing a polymer electrolyte fuel cell, which comprises disposing catalyst layers on both sides of a polymer electrolyte made of an ion exchange membrane, and further disposing current collectors made of a porous sheet on the outer sides of the catalyst layers, wherein the current collectors are obtained by impregnating or spraying a solution having a solvent-soluble fluorine-containing polymer having substantially no ion exchange groups, dissolved in a solvent, to the porous sheet, to deposit the fluorine-containing polymer on the porous sheet.

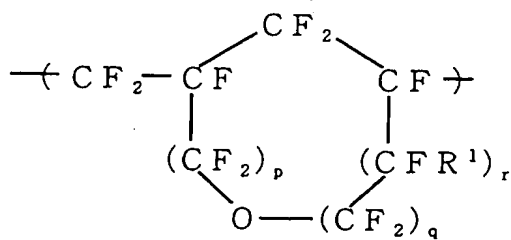
21. (New) The method for producing a polymer electrolyte fuel cell according to Claim 20, wherein after depositing the fluorine-containing polymer on the porous sheet, the porous sheet is heated at a temperature of from 100 to 250°C.

22. (New) The method for producing a polymer electrolyte fuel cell according to Claim 20 or 21, wherein the solvent is a fluorine-containing solvent, and the concentration of the solute in the solution is from 0.01 to 50% based on the total mass of the solution.

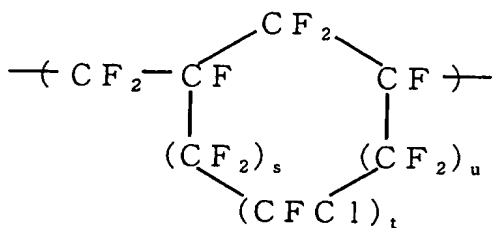
23. (New) The method for producing a polymer electrolyte fuel cell according to Claim 20, wherein the solvent-soluble fluorine-containing polymer is a polymer having a fluorine-containing aliphatic ring structure.

24. (New) The method for producing a polymer electrolyte fuel cell according to Claim 23, wherein the fluorine-containing polymer contains polymer units of the following formula 1, 2, 3 or 4; provided that in the formula 1, R^1 is a fluorine atom or a trifluoromethyl group, p is an integer of from 0 to 5, q is an integer of from 0 to 4, r is 0 or 1, and $p+q+r$ is from 1 to 6, in the formula 2, each of s , t and u which are independent of one another, is an integer of from 0 to 5, and $s+t+u$ is from 1 to 6, in the formula 3, each of R^2 and R^3 which are independent of each other, is a fluorine atom or a trifluoromethyl group, and in the formula 4, v is 1 or 2:

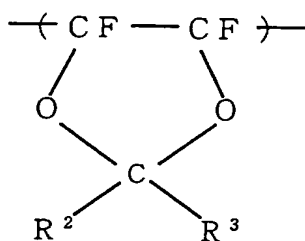
A2
Cont.



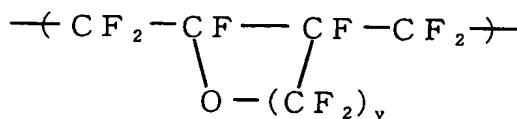
... Formula 1



... Formula 2



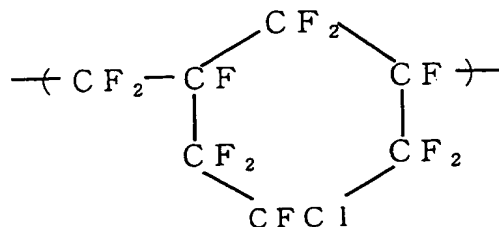
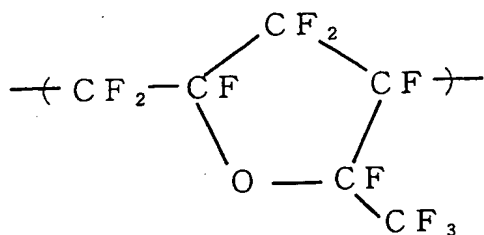
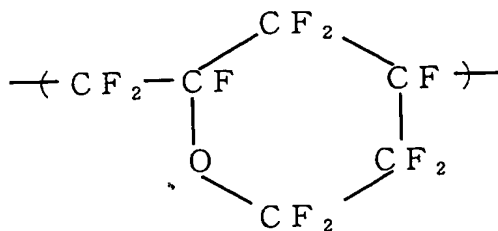
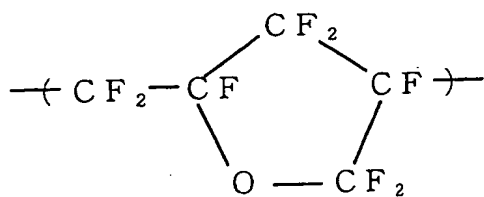
... Formula 3



... Formula 4

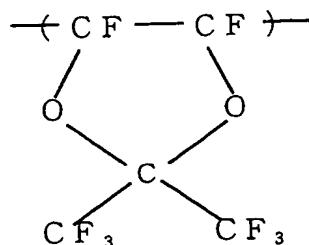
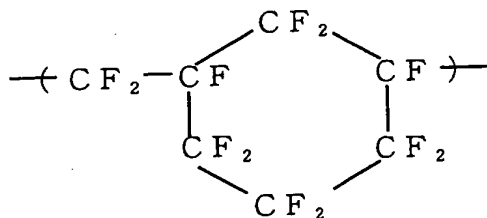
25. (New) The method for producing a polymer electrolyte fuel cell according to Claim 20, wherein the fluorine-containing polymer contains polymer units represented by any one of the following formulae 5 to 13:

A2
Cont.



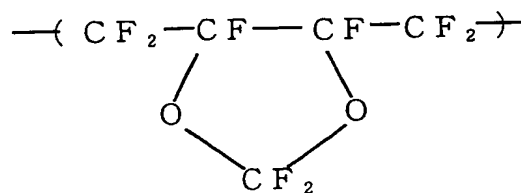
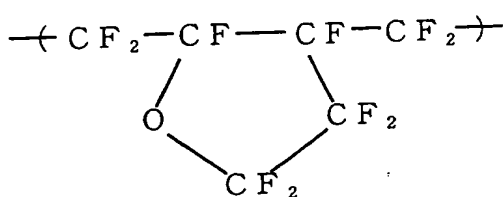
... Formula 7

... Formula 8



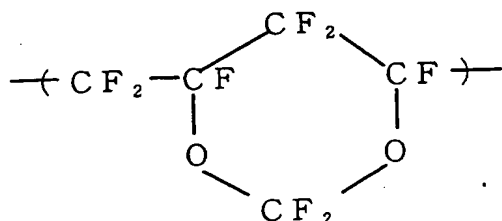
... Formula 9

... Formula 10



... Formula 11

... Formula 12



... Formula 13